

3, 4 & 5m 3" Single Mast Systems User Guide

3, 4 & 5m 3" Diameter Single Mast Systems

- Compact
- Lightweight
- Portable
- Weather resistant
- Quick setup



Components Overview

Item	Description
1	1 x RolaTube Mast
2	1 x Top Cap
3	1 x Base Cap
4	Rock Pegs
5	Guys
6	Soft Ground Pegs
7	Bag



Note: Quantity and types of guys and pegs is dependant on the system selected.

For use of the Secondary Cuffs with 4 & 5m masts to increase mast stability, please see the separate Secondary Cuff User Guide.

For optional components please see the ancillaries data sheet

4 Person Deployment*

Person 1 At base of Mast: Deployment Lead and responsible for deploying Mast from the roll.

Persons 2, 3, 4 At Guy Pegs: Maintaining tension during deployment to keep Mast central.

*Unless purchased with Central Guy Control System (CGC) accessory, which reduces deployment requirement to 2 persons.

Basic Deployment Process

STEP 1 Position End Cap where you wish to deploy the Mast.

STEP 2 Pace out position of various Guy Rope Pegs and drive Pegs into ground.

STEP 3 Unwind all Guy Ropes, connect to Pegs and lay the Snap Hooks next to the rolled Mast, ready for attachment to Mast components as it is deployed.

STEP 4 Arrange Top Cap and End Cap in an easy to reach position from the deployment point.

STEP 5 Start deploying Mast using Guy Ropes to support Mast centrally at all times.

STEP 6 When fully deployed, fit the End Cap and correctly tension all Guy Ropes.

TOP TIPS FOR SUCCESSFUL MAST DEPLOYMENTS

Make yourself familiar with the function of all components before starting deployment.

Deploy the Mast very slowly and smoothly so that the Guy Rope handlers can easily maintain the central position.

Do not start deploying Mast until all Pegs, Guy Ropes, top load and Caps have been properly set out and prepared for deployment to commence.

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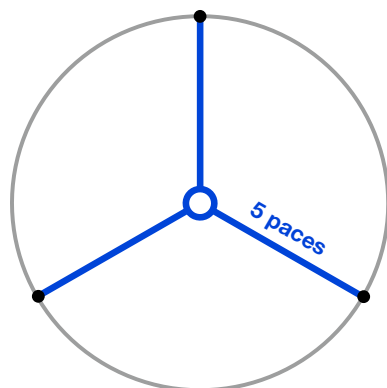
Deployment Instructions Continued

1. Select a clear level area of at least 8m diameter. Unpack the system components and check that they are all present and in good condition.

2. Place the End Cap in the middle of the deployment area, anchor the End Cap to the ground using 3 Rock Pegs. Arrange the Top Cap and payload beside the End Cap in easy reach.



3. Using the Base Cap as a guide take 3 pegs and pace out the distance (5 paces) for the Guy Rope Pegs. Drive the Pegs into the ground. The orientation should be directionally similar to the drawing.



4. Place RolaTube on ground next to the End Cap and, under control, unwind to waist height. Ensure the Mast is orientated so the spine (not the open side) faces into the wind.



5. Attach the payload to the Top Cap.

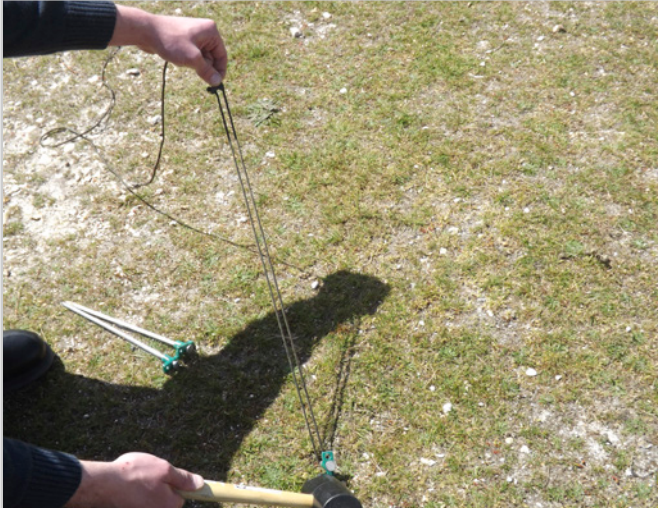
6. Slide the Top Cap onto the top of the Mast until it is fully seated. Ensure that the flat edge of the Top Cap is on the same side as the slot gap.



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Deployment Instructions Continued

7. Persons 2, 3 & 4 take the Guy Ropes and unwind them fully. Fit the Snap Hook on the Top Cap and walk the Guy Rope back to the peg. Unloosen the Clam-Cleat to create a loop. Put the loop around the Peg but do not tighten.



8. Person 1 can now, under control, deploy the Mast to full height. While **Persons 2, 3 & 4** maintain tension on the Guys.

9. Person 1 can now place the End Cap on the Mast by raising the Mast off the floor and placing the Mast into the End Cap, while **Persons 2, 3 & 4** maintain tension on the Guys.



10. Persons 2, 3 & 4 will now tension the Guy Ropes.



11. Person 1 will now inspect the deployment and instruct **Persons 2, 3 & 4** if any adjustments need to be made.



RECOVERY

Recovery is a logical reverse procedure of deployment. **Person 1** will roll up the Mast slowly and smoothly, while **Persons 2, 3 & 4** keep tension on the Guys. **DO NOT** allow the Mast to just topple to the ground or damage to payload and Mast System will occur.

5m 3" Single Mast Systems Product Components

System	RolaTube Part Number	NATO Stock Number
5m 3" Single Mast System Black	950-305000-3-1	5985-99-728-2130
5m 3" Single Mast System Orange	950-305000-5-1	5985-99-868-3929

Component	RolaTube Part Number	NATO Stock Number	Qty
5m 3" Tube Black	900-305000-3-0	5985-99-841-1348	1
5m 3" Tube Orange	900-305000-5-0	5985-99-870-2735	1
Top Cap	800-001050	5340-99-814-6207	1
Base Cap	800-001051	5985-99-981-0444	1
Rock Pegs	207-002001	4030-99-160-7145	6
Soft Ground Pegs	207-002005		3
Set of 3 7.5m Guys (brown tags)	207-004101		1
Mast Bag	502-003050		1
Total packed weight: 5.25kg			
Dimensions: 28 x 33 x 25cm			

Optional Extras			
Component	RolaTube Part Number	NATO Stock Number	Qty
Secondary Cuff Kit for 4/5m Single Mast	800-005106		
Secondary Cuff	800-000105		1
Set of 3 3.5m Guys	207-004122		1
Rock Pegs	207-002001		3
Soft Ground Pegs	207-002005		3
3" RolaCage	800-007102		
CGC (Central Guy Control) System for 5 & 7m Masts	207-300007		

For instructions on use of the RolaCage, please see the 7m 3" RolaCage User Guide

For individual component weights and dimensions please see our website

4m 3" Single Mast Systems Product Components

System	RolaTube Part Number	NATO Stock Number
4m 3" Single Mast System Black	950-304000-3-1	
4m 3" Single Mast System Orange	950-304000-5-1	

Component	RolaTube Part Number	NATO Stock Number	Qty
4m 3" Tube Black	900-304000-3-0		1
4m 3" Tube Orange	900-304000-5-0		1
Top Cap	800-001050	5340-99-814-6207	1
Base Cap	800-001051	5985-99-981-0444	1
Rock Pegs	207-002001	4030-99-160-7145	6
Set of 3 7.5m Guys (brown tags)	207-004101		1
Mast Bag	502-003050		1

Total packed weight: 4.5kg

Dimensions: 28 x 33 x 25cm

Optional Extras

Component	RolaTube Part Number	NATO Stock Number	Qty
Secondary Cuff Kit for 4/5m Single Mast	800-005106		
Secondary Cuff	800-000105		1
Set of 3 3.5m Guys	207-004122		1
Rock Pegs	207-002001		3
Soft Ground Pegs	207-002005		3
3" RolaCage	800-007102		
CGC (Central Guy Control) System for 3 & 4m Masts	207-300004		

For instructions on use of the RolaCage, please see the 7m 3" RolaCage User Guide

3m 3" Single Mast Systems Product Components

System	RolaTube Part Number	NATO Stock Number
3m 3" Single Mast System Black	950-303000-3-1	
3m 3" Single Mast System Orange	950-303000-5-1	

Component	RolaTube Part Number	NATO Stock Number	Qty
3m 3" Tube Black	900-303000-3-0		1
3m 3" Tube Orange	900-303000-5-0		1
Top Cap	800-001050	5340-99-814-6207	1
Base Cap	800-001051	5985-99-981-0444	1
Rock Pegs	207-002001	4030-99-160-7145	6
Set of 3 5.5m Guys	207-004004		1
Mast Bag	502-003050	5985-99-508-3269	1

Total packed weight: 4.0kg

Dimensions: 28 x 33 x 25cm

Optional Extras			
Component	RolaTube Part Number	NATO Stock Number	Qty
CGC (Central Guy Control) System for 3 & 4m Masts	207-300004		

Single Mast Systems Weights & Top Loads

System	RolaTube Part Number	Max Top Load (kg)	Weight Of System (kg)
3m 3" Mast System Black	950-303000-3-1	5.0	4.0
3m 3" Mast System Orange	950-303000-5-1	5.0	4.0
4m 3" Mast System Black	950-304000-3-1	5.0	4.5
4m 3" Mast System Orange	950-304000-5-1	5.0	4.5
5m 3" Mast System Black	950-305000-3-1	5.0	5.25
5m 3" Mast System Orange	950-305000-5-1	5.0	5.25
4m 3" Mast And RolaCage System Black	956-304000-3-1	5.0	7.0
4m 3" Mast And RolaCage System Orange	956-304000-5-1	5.0	7.0
5m 3" Mast and RolaCage System Black	956-305000-3-1	5.0	8.0
5m 3" Mast and RolaCage System Orange	956-305000-5-1	5.0	8.0

Safety Instructions

The system is rated to the loads stated and the end user is responsible for ensuring that user guides are followed and that loads are secured to the mast in a fashion that is safe and does not compromise the mast itself. RolaTube Technology does not accept liability or provide any warranty for usage not covered in this document.

- 1.1** Before unrolling a mast ensure that the area is clear of people and objects.
- 1.2** RolaTube masts are made from damage tolerant materials and will withstand significant abuse. However, they can be damaged by heavy &/or sharp objects. To prevent damage, items should not be placed on top of stored RolaTube masts, in either reeled or unreeled states.
- 1.3** Once the RolaTube mast has been unrolled ensure the surface is free from visible damage. **Do not** use the mast if there is visible damage.
- 1.4** If damage does occur, masts should be replaced as soon as possible, since the load carrying capacity can be reduced.

- 1.5** Good ground stake/peg grip is fundamental for safe deployment of any guyed mast system.

RolaTube provides ground stakes with our systems for general use. Because of the wide range of environments in which our products can be deployed, these standard ground stakes/pegs may not be suitable for all deployments.

The end user must assess the suitability of the standard RolaTube ground stakes for their intended deployment environment, and replace them with a more suitable design if the RolaTube supplied items are deemed to be not fit for purpose.

Products have been designed and tested to be compliant with the relevant aspects of MIL-STD-810G

The RolaTube systems are designed to be used in up to 60mph (100kph) winds. This maximum recommended wind rating is based on the bare mast correctly deployed and with guy pegs firmly positioned. The end user or system integrator must take responsibility for safe deployment and ensuring that the final system is fit for purpose with regard to wind loadings, once top load or other equipment is mounted onto the mast.

WARNINGS

- 1. Electric shock.** Make sure that the proposed deployment site for the mast is free of overhead wires, which must be considered as dangerous electrical shock hazards. Make sure that no overhead wires are present within 50 metres of the mast.
- 2. Mast deployment.** During mast deployment, minimise the risk of injury by taking the following precautions:
 - 2.1** Do not deploy the mast near power lines or in thunderstorms.
 - 2.2** Do not overload the mast top. Make sure only approved system components are fitted.
 - 2.3** Do not allow the mast to bend.
 - 2.4** Make sure the ground is clear of underground hazards prior to guy peg insertion.
 - 2.5** Use the guy ropes provided and make sure that the guy ropes are tensioned correctly and ground pegs deployed and secure.
- 2.6** Consideration must be given to the routing of the coax between the mast and equipment in addition to the guy rope placement so as not to cause a trip hazard.
- 2.7** If the mast is leant against a wall, the guy ropes must be in line and placed at the base of the wall to prevent the mast from toppling backwards.
- 2.8** Consideration must be given to deployment when in close proximity to a helicopter landing site. Notice and recording of the mast site shall be issued to the temporary site / location commander to ensure that planning considerations for aircraft approach and downwash effects are acknowledged and catered for.
- 2.9** Only use the mast in the vertical axis.
- 3 Wind.** Ensure that the spine of the mast is oriented to face into wind, make sure the guys are securely pegged down, ensure the system is used within windspeed advice / parameters.

Disclaimer: The technical and operational information contained within this document relates only to the specific product referred to in this document and may not be applicable when such product is not used in accordance with such operational instructions. The Company reserves the right to change technical and operational information from time to time. A copy of the latest version is available on the Company's website: www.rolatube.com

A copy of the Company's terms and conditions of business are also included on the Company's website.

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